

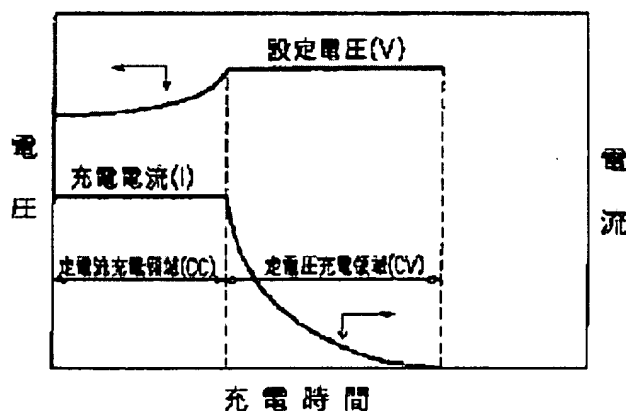
**CHARGING METHOD FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY**

**Patent number:** JP2000173669  
**Publication date:** 2000-06-23  
**Inventor:** INOUE KAORU; KOSHINA HIDE; SHIMAMURA HARUNARI; NITTA YOSHIAKI  
**Applicant:** MATSUSHITA ELECTRIC IND CO LTD  
**Classification:**  
- international: H01M10/44; H01M4/02; H01M4/38; H01M4/42; H01M10/40; H02J7/10  
- european:  
**Application number:** JP19980342889 19981202  
**Priority number(s):** JP19980342889 19981202

Report a data error here

**Abstract of JP2000173669**

**PROBLEM TO BE SOLVED:** To improve a charging/discharging cycle life characteristics of a battery, using silicon and zinc for a negative electrode. **SOLUTION:** In charging a secondary battery provided with a composite particle, in which the whole or a part of the circumference of a nuclear particle consisting of a solid phase A using silicon or zinc is covered by a solid phase B, in a negative electrode, a constant current charging area, in which charging is carried out at a fixed current value  $I$  until a set voltage  $E$  is attained, and a constant voltage charging area, in which charging is carried out at the set voltage  $E$  after the set voltage  $E$  is attained, are combined together for charging, and a charging current value in the constant current charging area and the constant voltage charging area is regulated to 5 mA/cm<sup>2</sup> or less in the form of current density for a part, in which the positive and negative electrodes are opposed to each other.



Data supplied from the esp@cenet database - Worldwide